

# FLEX

## Battery Product Specification

**FLEX**

Electrical Characteristics			
Model name	FLEX 8.6	FLEX 12.9	FLEX 17.2
Usable Energy <sup>1)</sup> @77°F(25°C)	8.6 kWh	12.9 kWh	17.2 kWh
Voltage Range	192~265.6V	288~398.4V	384~531.2V
Max. Charge/Discharge Current	22A	22A	22A
Max. Charge/Discharge Power	4.3 kW	6.5 kW	8.5 kW
Peak Power (only discharging, for 3 sec.) <sup>2)</sup>	5 kW	7kW	11 kW
Communication Interface	RS485, CAN(TBD)		
Max. Withstand voltage	1000V		
DC Protection	Circuit Breaker		
Connection Method	Power : Screw Clamp Connector Communication : Spring Type Connector		
User interface	LEDs for Normal and Fault operation		
Protection Features	Over Voltage / Over Current / short circuit		
Scalability (Total Energy)	Max. 2 in parallel(TBD) (Max. 34.4 kWh 25°C)		

Operating Conditions		
Installation Location	Indoor / Outdoor	
Installation Type	Stand / Wall Mount	
Operating Temperature	Charge	-10 ~ 50°C
	Discharge	-10 ~ 50°C
Operating Temperature (Recommended)	20 ~ 30°C	
Storage Temperature (At shipping state)	-30 to 60°C, acceptable for 7 days in total -20 to 45°C, acceptable for the first 6 months -20 to 30°C, acceptable for 7 <sup>th</sup> month~12 <sup>th</sup> month	
Humidity	5%~95%	
Altitude	Max. 2,000m	
Cooling Strategy	Natural Convection	

Certification & Reliability		
Safety	Cell	UL1642, IEC62619
	Battery Pack	CE,RCM,UL1973, IEC62619, IEC62477-1
EMC	FCC, IEC61000-6-1/-2/-3	
Transportation	UN38.3 (UNDOT)	
Hazardous Materials Classification	Class 9	
Ingress Rating	IP55	

- ※ Test Conditions - Temperature 25°C, at the beginning of life
- ※ Usable Energy is measured under specific condition from LGES(0.3CCCV/0.3CC)
- ※ Product specification may change without notice

1) DOD 100%

2) Peak Current excludes repeated short duration (less than 10 sec. of current pattern).

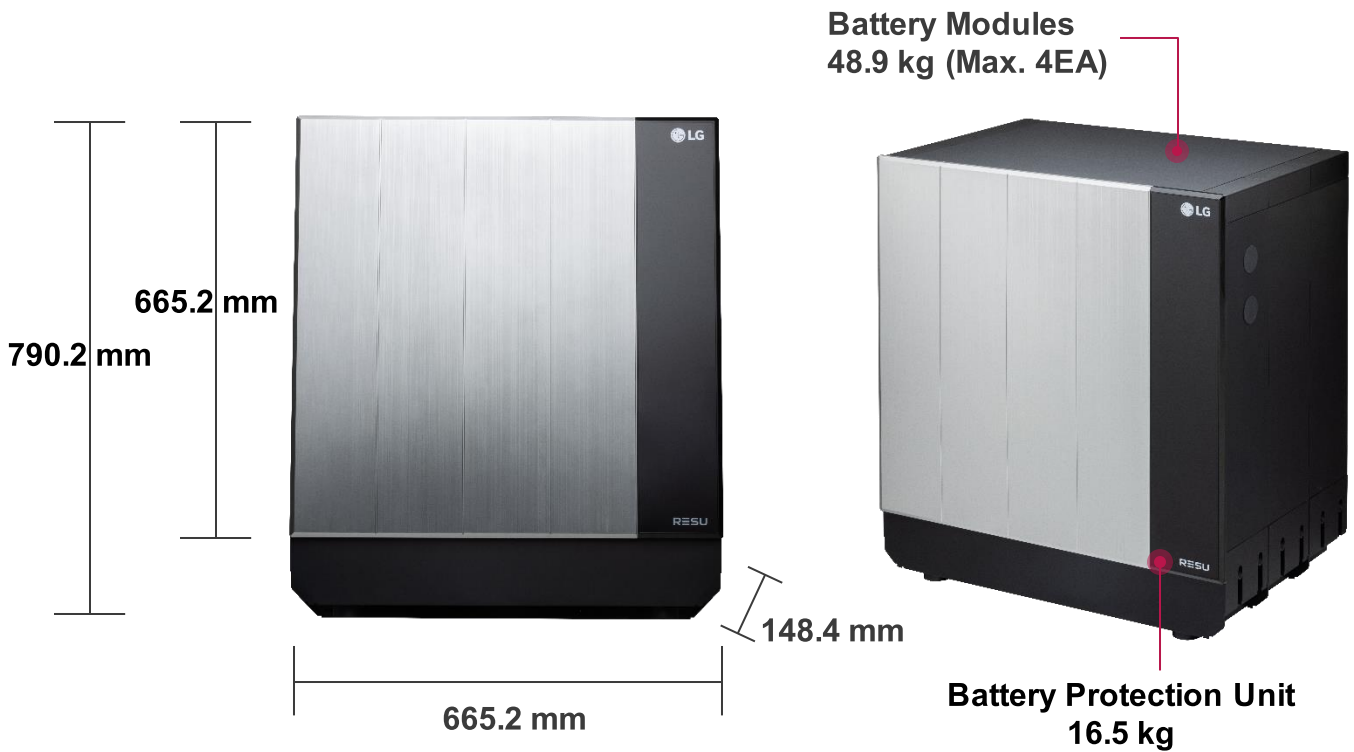
**FLEX**

- Standing Type

Mechanical Characteristics		
Dimensions	Width	665.2 mm
	Height	665.2 mm
	Height w/ Standing Bracket	790.2 mm
	Depth	148.4 mm
Weight *		BMA <sup>1)</sup> : 48.9 kg, BPU <sup>2)</sup> : 16.5 kg

\*Without Design Cover and Brackets

\*\*Weight of BPU(with Design Cover) : 16.6 kg



\*Drawings are with design cover

1) BMA : Battery Module Assembly

2) BPU : Battery Protection Unit

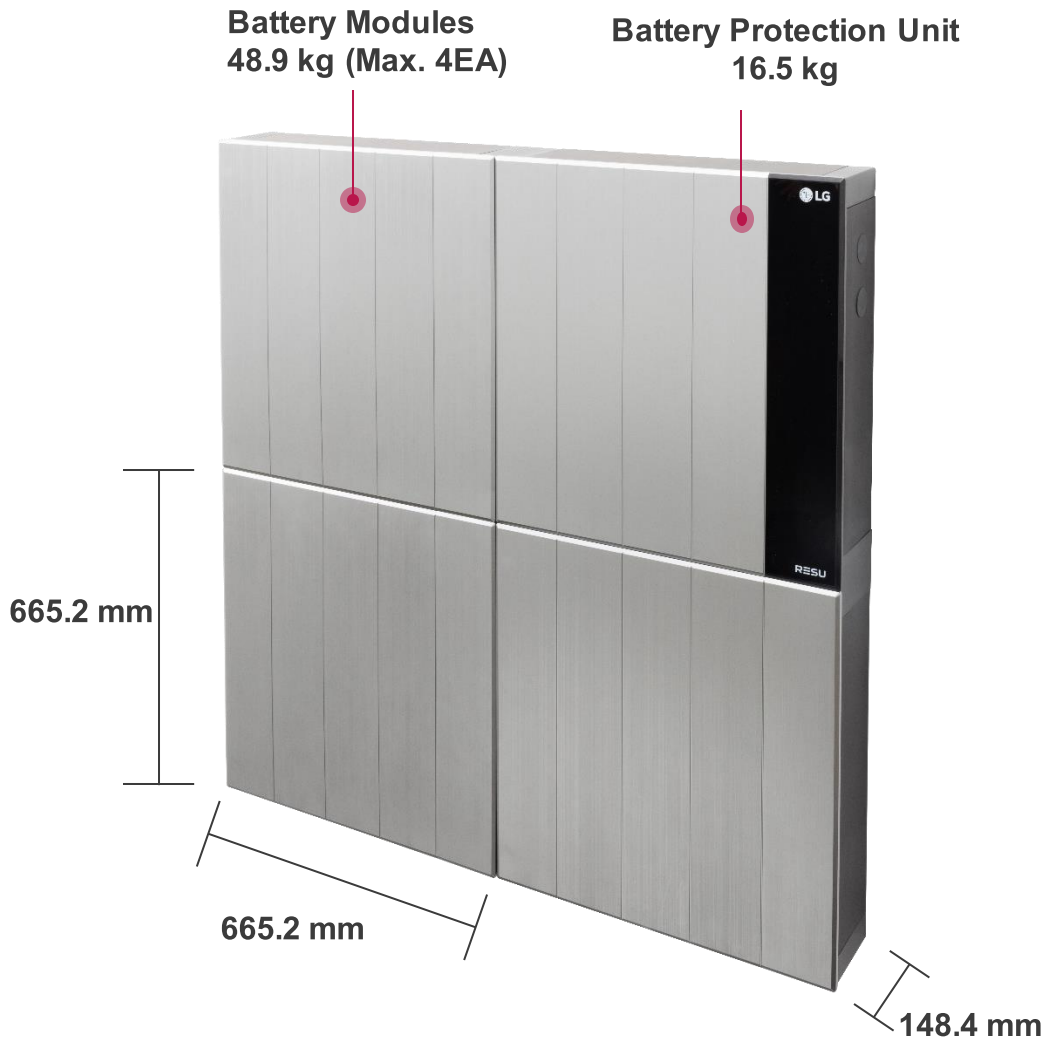
**FLEX**

- Wall-Mounting Type

Mechanical Characteristics		
Dimensions	Width	665.2 mm
	Height	665.2 mm
	Depth	148.4 mm
Weight *		BMA <sup>1)</sup> : 48.9 kg, BPU <sup>2)</sup> : 16.5 kg

\*Without Design Cover and Brackets

\*\*Weight of BPU(with Design Cover) : 16.6 kg



\*Drawings are with design covers

1) BMA : Battery Module Assembly

2) BPU : Battery Protection Unit



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